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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,295	10/01/2002	Yong Zhang	IACP0018USA	5719
27765	7590	05/08/2006		EXAMINER
				DUONG, FRANK
			ART UNIT	PAPER NUMBER
				2616

DATE MAILED: 05/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/065,295	ZHANG ET AL.
	Examiner Frank Duong	Art Unit 2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 01 October 2002.  
 2a) This action is FINAL.                            2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-6 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1,2 and 4-6 is/are rejected.  
 7) Claim(s) 3 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 01 October 2002 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____ .

## DETAILED ACTION

1. This Office Action is a response to communications dated 10/01/02. Claims 1-6 are pending in the application.

### ***Specification***

2. The disclosure is objected to because of the following informalities:

Page 12, "Figures" should be deleted.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-2 and 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Diepstraten (USP 5,339,316).

Regarding claim 1, in accordance with Diepstraten reference entirely, Diepstraten discloses a method for filtering packets (col. 2, lines 65-66) in a wireless network system (Fig. 1), the wireless network system (Fig. 1) comprising a wireless access point (22 or 24) wirelessly communicating with a plurality of first nodes (30), each of the first nodes delivering data to the access point by transmitting packets (Fig. 3), each of the packets (Fig. 3) having a header (76-78) for recording a first address

code (76 or 78), the access point (*Fig. 2 and col. 3, lines 30-53*) comprising a first list (45) for storing a plurality of first addresses (*col. 5, lines 28-29*), a receiving module (62) for receiving the packets transmitted from the first nodes, an identifying module (44) for comparing the first address codes of the packets received from the receiving module with the first addresses of the first list, and a transmitting module (40) for delivering data to a plurality of second nodes (18) via a local area network (20), the method comprising:

- (a) utilizing one of the first nodes to transmit a first packet to the access point (*col. 4, lines 19-20, Diepstraten discloses station A1 transmits packet 70*);
- (b) utilizing the receiving module to receive the first packet transmitted from the first node (*col. 5, lines 30-31, Diepstraten also discloses access point 22 receives packet from network 14*);
- (c) utilizing the identifying module to compare the first address code (*packet header (fields 71-80 depicted in Fig. 3)*) of the first packet (packet 70) with the first addresses of the first list (*col. 5, lines 31-32, Diepstraten discloses access point 22 examines the destination address of packet 70. To examine is equated to correspond to "to compare". In addition, it is inductive that the destination address is examined using the local address table 45 wherein the addresses are maintained (col. 5, lines 28-29)*); and
- (d) utilizing the transmitting module to transmit the first packet to one (18) of the second nodes (*col. 2, lines 61-62*) if the first address code (*packet header*) of the first packet (packet 70) corresponds to one (*destination or source address*) of the first addresses of the first list (45) (*col. 5, lines 32-34, Diepstraten further discloses if the*

*destination address of packet 70 is not a local address of the network 12, then the packet is forwarded to the wired backbone LAN 12. It is inductive that this function is done by elements 40, 42 and 44 using table 45).*

Regarding **claim 2**, in addition to features recited in base claim 1 (see rationales discussed above), Diepstraten further discloses wherein the first address code (destination address) recorded in the header of each packet (packet 70) is used to indicate which first node transmits the packet (*packet 70 address fields are discussed at col. 3, lines 54-67 and source address portion 72 is used to indicate who or which device transmits the packet*).

Regarding **claim 4**, in addition to features recited in base claim 1 (see rationales discussed above), Diepstraten further discloses wherein the first address code (packet header) recorded in the header of each packet (packet 70) is used to indicate where the packet should be transmitted (*packet 70 address fields are discussed at col. 3, lines 54-67 and destination address portion 76 is used to indicate where the packet should be transmitted to*).

Regarding **claim 5**, in addition to features recited in base claim 1 (see rationales discussed above), Diepstraten further discloses wherein the access point (22) is positioned in a medium access control (MAC) layer (46) of the wireless network system (see Fig. 2).

Regarding **claim 6**, in addition to features recited in base claim 1 (see rationales discussed above), Diepstraten further discloses wherein the first nodes (30) and the

second nodes (18) are positioned in a physical layer of the wireless network system (see *Fig. 1 for connection details or positions of elements 30 and 18*).

***Allowable Subject Matter***

4. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record, considered individually or in combination, fails to fairly show or suggest the claimed invention of base claim 1 and further limitation with novel and unobvious limitations of "*wherein the header of each packet further records a second address code for indicating where the packet should be transmitted, and the access point further comprises a second list for storing a plurality of second addresses, the identifying module compares the second address code of the first packet with the second addresses of the second list in the step (c), and the transmitting module transmits the first packet to one of the second nodes in the step (d) if the first address code of the first packet corresponds to one of the first addresses of the first list and if the second address code of the first packet corresponds to one of the second addresses of the second list*

*", structurally and functionally interconnected with other limitation in a manner as recited in the dependent claim 3.*

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Baker et al (USP 5,570,366) discloses a system and method for packet filtering in a wireless network environment that generally relates to the claimed invention.

Fenner (USP 5,490,258) discloses an associative memory for very large key fields having source address table and destination address table as depicted in Fig. 2, elements 68 and 66, respectively. The disclosed invention appears related to the claimed invention of the dependent claim 3. However, in Fenner, the source address table is used to access the protected record and the destination address table is used to access the routing record different from that claimed in the dependent claim 3 of the instant application.

King, An IEEE 802.11 Wireless LAN Security White Paper, pages 1-18, October 2001.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Duong whose telephone number is 571-272-3164. The examiner can normally be reached on 7:00AM-3:30PM, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on 571-272-7488. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



FRANK DUONG  
PRIMARY EXAMINER

May 3, 2006